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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

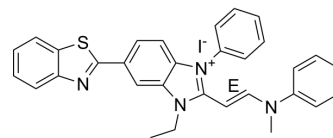
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

(E)-Akt inhibitor-IV

Cat. No.:	HY-14971
CAS No.:	959841-49-7
Molecular Formula:	C ₃₁ H ₂₇ IN ₄ S
Molecular Weight:	614.54
Target:	Akt
Pathway:	PI3K/Akt/mTOR
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (81.36 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration	Mass		
			1 mg	5 mg	10 mg
		1 mM	1.6272 mL	8.1362 mL	16.2723 mL
		5 mM	0.3254 mL	1.6272 mL	3.2545 mL
		10 mM	0.1627 mL	0.8136 mL	1.6272 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)				
	Solubility: ≥ 2 mg/mL (3.25 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	(E)-Akt inhibitor-IV ((E)-AKTIV) is a PI3K-Akt inhibitor, with potent cytotoxic ^[1] .
IC ₅₀ & Target	Akt ^[1]
In Vitro	(E)-Akt inhibitor-IV (compound 7) exhibits average GI ₂₀ of 0.04 μM on four cell lines (MDA-MB468 cells, MDA-MB231 cells, MCF7 cells and 184B5 cells) ^[1] . (E)-Akt inhibitor-IV shows little effects on the growth of 184B5 non-cancer cells at the average GI ₂₀ doses ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

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- Leuk Res Rep. 2023 Mar 22;128:107059.

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REFERENCES

[1]. Changkun Hu, et al. A 4-aminoquinoline derivative that markedly sensitizes tumor cell killing by Akt inhibitors with a minimum cytotoxicity to non-cancer cells. Eur J Med Chem. 2010 Feb;45(2):705-9.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA